

IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. 1.121:

1. (currently amended) An insulation system for an oil filled environment comprising:
a plurality of insulating units, each of said plurality of insulating units comprising a first layer of ~~insulating~~ polymeric material and a second layer of ~~insulating~~ non-polymeric material;
~~at least one of said first and second layers comprising a polymeric material~~, said insulating units positioned with respect to each other such that said second layer of non-polymeric material of one insulating unit is adjacent to said first layer of polymeric material of another insulating unit.
2. (original) The system of claim 1, wherein said polymeric material is selected from the group consisting of: polyethylene terephthalate (PET), surface treated polyethylene terephthalate (S-PET), QUIN-T, QUIN-TEK, polypropylene, polyethylene, polyethylene naphthalate (PEN), polysulphones, polystyrene, polyimides, polyphenylene sulphide (PPS), polybutylene terephthalate (PBT), polyamide imide (PAI), polyether imide (PEI) and any combinations thereof.
3. (original) The system of claim 1, wherein said plurality of insulating units terminates at a terminal layer, said terminal layer having thereon a third layer of a paper insulating material.
4. (original) The system of claim 1, wherein said first layer and said second layer each have a thickness from about 0.5 mil to about 20 mil.

5. (canceled).

6. (original) The system of claim 1, wherein said first layer has a first thickness and said second layer has a second thickness, a ratio of said second thickness to said first thickness is from about 0.75:1.25 to about 1.25:0.75.

7. (original) The system of claim 1, wherein the system is selected from the group consisting of main insulation, layer insulation, and any combinations thereof.

8. (original) The system of claim 1, wherein said plurality of insulating units is formed of a winding of said first and second layers.

9. - 28. (canceled).

29. (currently amended) An insulation system for an oil filled environment comprising:

a first layer of polymeric insulating material plurality of insulation units, each insulation unit comprising a polymeric layer and a non-polymeric layer, insulation units being stacked such that each non-polymeric layer is disposed between two polymeric layers of the insulation system,

said insulation system being an insulation selected from the group consisting of layer insulation, main insulation, spacer insulation, end rings and any combinations thereof.

30. (currently amended) The system of claim 29, wherein said polymeric ~~layer insulating material~~ is selected from the group consisting of: polyethylene terephthalate (PET), surface treated polyethylene terephthalate(S-PET), QUIN-T, QUIN-TEK, polypropylene, polyethylene, polyethylene naphthalate (PEN), polysulphones,

polystyrene, polyimides, polyphenylene sulphide (PPS), polybutylene terephthalate (PBT), polyamide imide (PAI), polyether imide (PEI) and any combinations thereof.

31. (original) The system of claim 29, wherein said ~~first~~ polymeric layer has a thickness from about 1 mil to about 20 mil.

32. (original) The system of claim 39, wherein said insulation system is layer insulation.

33. (currently amended) An insulation system for an oil filled environment comprising:

a plurality of alternating layers of ~~insulating~~ polymeric and non-polymeric materials; ~~at least two of said plurality of layers comprising a polymeric material~~

34. (original) The system of claim 33, wherein said polymeric material is selected from the group consisting of: polyethylene terephthalate (PET), surface treated polyethylene terephthalate (S-PET), QUIN-T, QUIN-TEK, polypropylene, polyethylene, polyethylene naphthalate (PEN), polysulphones, polystyrene, polyimides, polyphenylene sulphide (PPS), polybutylene terephthalate (PBT), polyamide imide (PAI), polyether imide (PEI) and any combinations thereof.

35. (original) The system of claim 33, wherein each of said plurality of layers of insulating material has a thickness from about 0.5 mil to about 20 mil.

36. (original) The system of claim 33, wherein said plurality of layers of insulating material comprise alternating layers of said polymeric material and a paper insulating material.

37. (new) The system of claim 1, wherein the non-polymeric material comprises cellulose paper, or fish paper, or ceramic paper, or any combinations thereof.

38. (new) An insulation system for an oil filled environment comprising:
a plurality of insulating units, each of said plurality of insulating units comprising a first layer of polymeric material and a second layer of paper material;
said insulating units positioned with respect to each other such that said second layer of paper material of one insulating unit is adjacent to said first layer of polymeric material of another insulating unit.

39. (new) The system of claim 38, wherein the paper material comprises cellulose paper, or fish paper, or ceramic paper, or any combinations thereof.

40. (new) The system of claim 38, wherein the polymeric material is selected from the group consisting of: polyethylene terephthalate (PET), surface treated polyethylene terephthalate (S-PET), QUIN-T, QUIN-TEK, polypropylene, polyethylene, polyethylene naphthalate (PEN), polysulphones, polystyrene, polyimides, polyphenylene sulphide (PPS), polybutylene terephthalate (PBT), polyamide imide (PAI), polyether imide (PEI) and any combinations thereof.

41. (new) The system of claim 29, wherein the non-polymeric layer comprises cellulose paper, or fish paper, or ceramic paper, or any combinations thereof.

42. (new) An insulation system for an oil filled environment comprising:
a plurality of insulation units, each insulation unit comprising a polymeric layer and a paper layer, insulation units being stacked such that the paper layer is disposed between two polymeric layers of the insulation system;

said insulation system being an insulation selected from the group consisting of layer insulation, main insulation, spacer insulation, end rings and any combinations thereof.

43. (new) The system of claim 42, wherein the paper layer comprises cellulose paper, or fish paper, or ceramic paper, or any combinations thereof.

44. (new) The system of claim 42, wherein the polymeric material is selected from the group consisting of: polyethylene terephthalate (PET), surface treated polyethylene terephthalate (S-PET), QUIN-T, QUIN-TEK, polypropylene, polyethylene, polyethylene naphthalate (PEN), polysulphones, polystyrene, polyimides, polyphenylene sulphide (PPS), polybutylene terephthalate (PBT), polyamide imide (PAI), polyether imide (PEI) and any combinations thereof.